

What is claimed is:

1. A method for allocating corresponding identity (ID) to each of a plurality of base station controllers (BSC) and each 5 of a plurality of base transceiver stations (BTS) in an international mobile telecommunication-2000 (IMT-2000) system including the plurality of BSCs (BSC = base station controller), the plurality of BTSSs and an OMC (OMC = operating and maintenance center) for managing the plurality of BSCs and 10 the plurality of BTSSs (BTS = base transceiver station), the method comprising the steps of:

a) by the OMC, determining if system initialization is performed;

b) if the system initialization is not performed, going 15 to the step a), otherwise by the OMC, transmitting BSC ID allocation data to all the BSCs coupled to the OMC and allocating corresponding specific BSC identities (IDs) and corresponding group IDs to all BSCs;

c) by each of the plurality of BSCs, receiving the BSC ID 20 allocation data from the OMC and recognizing a corresponding specific BSC ID and a corresponding group ID allocated to each BSC by analyzing the BSC ID allocation data;

d) by each of the plurality of BSCs, transmitting BTS ID 25 allocation data to all BTSSs coupled to each BSC and allocating corresponding specific BTS IDs to all the BTSSs; and

e) by each of the plurality of BTSSs, receiving the BTS ID allocation data from the BSC and recognizing corresponding

specific BTS IDs allocated to each BTS by analyzing the BTS ID allocation data.

2. The method as recited in claim 1, wherein the step b)  
5 includes the steps of:

b1) by the OMC, determining if a first ID allocation request signal is received from one of the plurality of BSCs;

b2) if the first ID allocation request signal is not received, going to the step b1), otherwise transmitting the  
10 BSC ID allocation data to the BSC and allocating a corresponding specific BSC ID and a corresponding group ID to the BSC;

b3) determining if it is completely performed to allocate corresponding specific BSC IDs and corresponding group IDs to  
15 all of the plurality of BSCs; and

b4) if it is not completely performed to allocate the corresponding specific BSC IDs and the corresponding group IDs to all of the plurality of BSCs, going to the step b1), otherwise performing management of the plurality of BSCs based  
20 on the specific BSC IDs and the group IDs that are allocated to the plurality of the BSCs.

3. The method as recited in claim 2, wherein the BSC ID allocation data are represented with 32 bits that include 8 bits for representing a BSC group ID field, 8 bits for representing a BSC ID field and 16 bits for representing a reserved field.

4. The method as recited in claim 1, wherein the step d) includes the steps of:

5       d1) by each of the plurality of BSCs, determining if a second ID allocation request signal is received from one of the plurality of BTSs coupled thereto;

      d2) if the second ID allocation request signal is not received, going to the step d1), otherwise transmitting the BTS ID allocation data to the BTS and allocating a corresponding specific BTS ID to the BTS;

10      d3) determining if it is completely performed to allocate corresponding specific BTS IDs to all of the plurality of BTSs coupled thereto; and

15      d4) if it is not completely performed to allocate the corresponding specific BTS IDs to all of the plurality of BTSs, going to the step d1), otherwise performing management of the plurality of BTSs based on the specific BTS IDs that are allocated to the plurality of the BTSs.

5. The method as recited in claim 4, wherein the BTS ID allocation data are represented with 32 bits that include 13 bits for representing a BTS ID field, 3 bits representing for a BTS type field and 16bits for representing a reserved field.